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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Claims 1-22 (canceled)

Claim 23 (currently amended): A method of treatment of a patient having a condition

associated with the level of CLCA1, comprising contacting cells of said patient with the a nucleic

acid molecule of claim 1 that down regulates expression of CLCA1 (Chloride Channel Calcium

Activated) gene under conditions suitable for said treatment.

Claim 24 (previously presented): The method of claim 23 further comprising the use of

one or more therapies under conditions suitable for said treatment.

Claim 25 (currently amended): A method of cleaving RNA of a CLCA1 gene, comprising

contacting the an enzymatic nucleic acid molecule of claim 3 that down regulates expression of

CLCA1 (Chloride Channel Calcium Activated) gene with said RNA under conditions suitable for

the cleavage of said RNA.

Claim 26 (previously presented): The method of claim 25, wherein said cleavage is

carried out in the presence of a divalent cation.

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Claim 27 (previously presented): The method of claim 26, wherein said divalent cation is

Mg2+.

Claims 28-44 (canceled)

Claim 45 (currently amended): A method for treatment of chronic obstructive pulmonary

disease comprising the step of administering to a patient the a nucleic acid molecule of claim 1

that down regulates expression of CLCA1 (Chloride Channel Calcium Activated) gene under

conditions suitable for said treatment.

Claim 46 (currently amended): A method for treatment of cystic fibrosis comprising the

step of administering to a patient the nucleic acid molecule of elaim 1 that down regulates

expression of CLCA1 (Chloride Channel Calcium Activated) gene under conditions suitable for

said treatment.

Claims 47-48 (canceled)

Claim 49 (currently amended): The method of claims 45 or 46, wherein said method

further comprises administering to said patient the nucleic acid molecule of elaim 1 in

conjunction with one or more other therapies.

Claim 50 (previously presented): The method of claim 49, wherein said other therapies

are therapies selected from the group consisting of oxygen therapy, bronchodilators,

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corticosteroids, antibacterials, vaccinations, acetylcysteine, mucokinetic agents, and DNase

(Pulmozyme) treatments.

Claims 51-60 (canceled)

Claim 61 (new): A method of reducing CLCA1 activity in a cell, comprising the step of

contacting said cell with an enzymatic nucleic acid molecule, under conditions suitable for said

reduction of CLCA1 activity, wherein said enzymatic nucleic acid molecule comprises a binding

arm having a sequence complementary to any sequences having SEQ ID NOs:1-2189 and 5399-

5416.

Claim 62 (new): A method of reducing CLCA1 activity in a cell, comprising the step of

contacting said cell with an enzymatic nucleic acid molecule, under conditions suitable for said

reduction of CLCA1 activity, wherein said enzymatic nucleic acid molecule comprises any of

sequences having SEQ ID NOs:2190-5398 and 5425-5434.

Claim 63 (new): The method of claim 61, wherein said enzymatic nucleic acid molecule

is in a hammerhead (HH) motif.

Claim 64 (new): The method of claim 62, wherein said enzymatic nucleic acid molecule

is in a hammerhead (HH) motif.

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Claim 65 (new): The method of claim 61, wherein said enzymatic nucleic acid molecule

is in a hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, amberzyme, zinzyme or

RNAse P nucleic acid motif.

Claim 66 (new): The method of claim 62, wherein said enzymatic nucleic acid molecule

is in a hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, amberzyme, zinzyme or

RNAse P nucleic acid motif.

Claim 67 (new): The method of claim 61, wherein said enzymatic nucleic acid molecule

is in an Inozyme motif.

Claim 68 (new): The method of claim 62, wherein said enzymatic nucleic acid molecule

is in an Inozyme motif.

Claim 69 (new): The method of claim 61, wherein said enzymatic nucleic acid molecule

is in a G-cleaver motif.

Claim 70 (new): The method of claim 62, wherein said enzymatic nucleic acid molecule

is in a G-cleaver motif.

Claim 71 (new): The method of claim 61, wherein said enzymatic nucleic acid molecule

is a DNAzyme.

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Claim 72 (new): The method of claim 62, wherein said enzymatic nucleic acid molecule

is a DNAzyme.

Claim 73 (new): The method of claim 61, wherein said nucleic acid molecule comprises

between 12 and 100 bases complementary to RNA of a CLCA1 gene.

Claim 74 (new): The method of claim 62, wherein said nucleic acid molecule comprises

between 12 and 100 bases complementary to RNA of a CLCA1 gene.

Claim 75 (new): The method of claim 61, wherein said nucleic acid molecule comprises

between 14 and 24 bases complementary to RNA of a CLCA1 gene.

Claim 76 (new): The method of claim 62, wherein said nucleic acid molecule comprises

between 14 and 24 bases complementary to RNA of a CLCA1 gene.

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